

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number  
**WO 2005/084392 A3**(51) International Patent Classification:  
A61K 31/415 (2006.01)(21) International Application Number:  
PCT/US2005/007273

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/550,261 3 March 2004 (03.03.2004) US  
60/642,007 6 January 2005 (06.01.2005) US(71) Applicant (for all designated States except US): CON-  
VIVIA [US/US]; 536 W. Hillsdale, San Mateo, CA 94403  
(US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): DALEY, Thomas, E.  
[US/US]; 536 W. Hillsdale, San Mateo, CA 94403 (US).(74) Agents: GEORGE, Nikolaos, C. et al.; Jones Day, 222  
East 41st Street, New York, NY 10017-6702 (US).(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY,  
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,  
ZA, ZM, ZW.(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

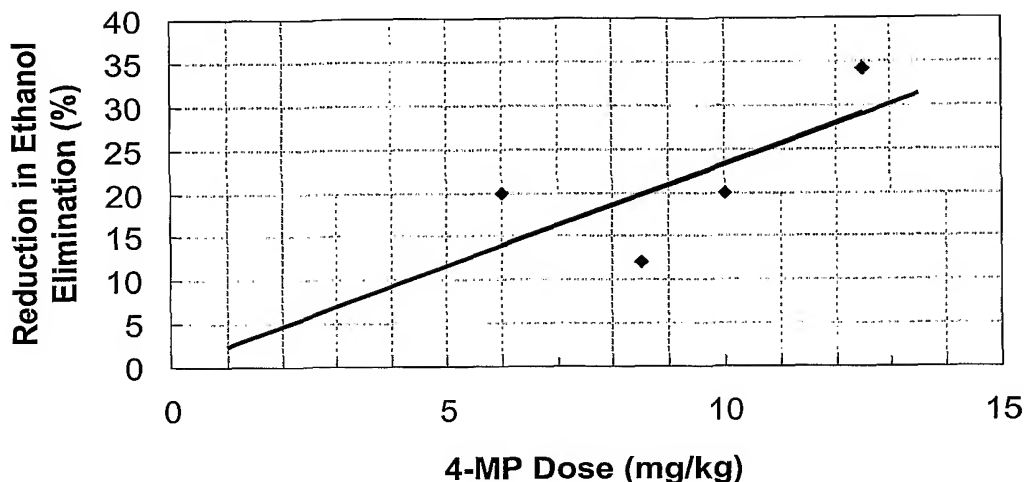
## Published:

- with international search report
- before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments

(88) Date of publication of the international search report:  
3 August 2006For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: 4-METHYLPYRAZOLE FORMULATIONS FOR INHIBITING ETHANOL INTOLERANCE

## 4-MP Dose (mg/kg) vs. Reduction in Ethanol Elimination (%)



(57) Abstract: Methods, articles of manufacture and compositions are provided useful for the prevention or amelioration of a symptom of acetaldehyde accumulation or ethanol intolerance in a subject with reduced or absent reduced or absent aldehyde dehydrogenase subtype 2 (ALDH2) activity wherein about 1 mg/kg to about 4 mg/kg 4-methylpyrazole, or an equivalent mass of a 4-MP salt, are to be orally administered to the subject.

WO 2005/084392 A3